

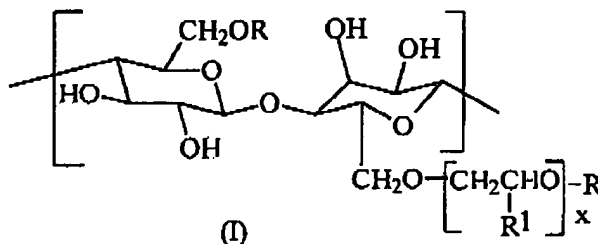
Appl. No.09/331,818

Response to Office Action dated May 20, 2003

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): A laundry detergent composition which imparts fabric appearance benefits selected from pill/fuzz reduction, antifading, improved abrasion resistance and/or enhanced softness to fabrics and textiles laundered in aqueous washing solutions formed therefrom, which composition comprises:

- A) from about 1 to 80% by weight of a deterative surfactant;
- B) from about 0.1% to 80% by weight of a non-phosphorus organic or inorganic detergency builder which is a member selected from the group consisting of zeolite, combinations of zeolite plus and sodium carbonate, ~~zeolite plus~~ silicate, an alkali metal salt of a polyhydroxy sulfonate, or of a carboxylate or polycarboxylate builder selected from the group consisting of nitrilotriacetic acid, oxydisuccinic acid, mellitic acid, a benzene polycarboxylic acid, ~~citric~~ acid, a polyacetal carboxylate, and mixtures of said non-phosphorus builders;
- C) from about 0.1% to 8% by weight of a modified cellulose ether fabric treatment agent selected from the group consisting of:
- i) hydrophobically-modified, nonionic cellulose ethers which have a molecular weight of from about 10,000 to 2,000,000 and which have repeating substituted anhydroglucose units corresponding to the general formula:



wherein:

R is a combination of H and C₈-C₂₄ with alkyl substitution of the anhydroglucose rings ranging in an amount of from about 0.1% to 5% by weight of the cellulose ether material;

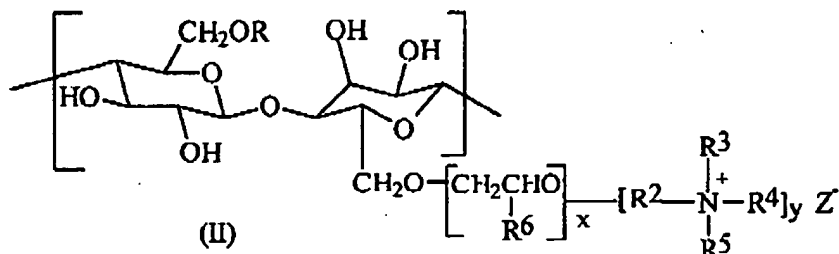
R¹ is H or methyl; and

x ranges from about 1 to 20;

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- ii) cationic quaternary ammonium cellulose ethers which have a molecular weight of from about 10,000 to 2,000,000 and which have repeating substituted anhydroglucose units corresponding to the general formula:



wherein:

R is H or C₈₋₂₄, with alkyl substitution of the anhydroglucose rings ranging in an amount of from about 0.1% to 5% by weight of the cellulose ether material;

R₂ is CH₂CHOHCH₂ or C₈₋₂₄ alkyl;

R₃, R₄ and R₅ are each, independently, methyl, ethyl or phenyl;

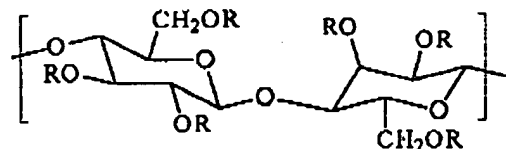
R₆ is H or methyl;

x ranges from about 1 to 20;

y ranges from about 0.005 to 0.5; and

Z is Cl⁻ or Br⁻;

- iii) anionic cellulose ethers which have a molecular weight of from about 10,000 to 2,000,000 and which have repeating substituted anhydroglucose units corresponding to the general formula:



wherein:

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R is a combination of H and a) CH_2COOA , and, optionally, b) C_{2-24} alkyl, with alkyl substitution of the anhydroglucose rings ranging in an amount of from about 0.1% to 5% by weight of the cellulose ether material, and with the degree of carboxymethyl substitution of the anhydroglucose rings ranging from about 0.05 to 2.5; and wherein A is Na or K; and

iv) combinations of said nonionic, cationic and anionic cellulose ethers.

Claim 2 (Previously presented): A composition according to Claim 1 wherein

- A) the deterative surfactant comprises from about 5% to 50% by weight and is selected from anionic and nonionic surfactant materials; and
- B) the modified cellulose ether fabric treatment agent comprises from about 0.5% to 4% by weight of the composition and has a molecular weight ranging from 10,000 to 1,000,000.

Claim 3. (original): A composition according to Claim 2 wherein the modified cellulose ether fabric treatment agent is a hydrophobically-modified, nonionic material corresponding to Structural Formula No. I wherein

- a) R is a combination of H and C_8 to C_{16} alkyl;
- b) R substitution of the anhydroglucose rings ranges from about 0.2% to 2% by weight of the cellulose ether;
- c) R^1 is H; and
- d) x ranges from about 1 to 10.

Claim 4 (cancel)

Claim 5 (withdrawn) A composition according to Claim 2 wherein the modified cellulose ether fabric treatment agent is a cationic material corresponding to Structural Formula No. II wherein

- a) R is C_8 to C_{16} alkyl;
- b) R substitution of the anhydroglucose rings ranges from about 0.2% to 2% by weight of the cellulose ether;


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- c) R^2 is C8 to C16 alkyl or is $\text{CH}_2\text{CH}(\text{OH})\text{CH}_2$;
- d) R^3 , R^4 and R^5 are each methyl;
- e) R^6 is H;
- f) x ranges from about 1 to 10;
- g) y ranges from about 0.005 to 0.1; and
- h) Z is Cl^- .

Claim 6 (withdrawn) A composition according to Claim 5 wherein the cationic cellulose ether is selected from UCARE JR 30M, JR 400, JR 125, LR 400 and LK 400 and derivatives thereof.

Claim 7 (withdrawn) A composition according to Claim 2 wherein the modified cellulose ether fabric treatment agent is a anionic material corresponding to Structural Formula No. III wherein:

- 
- a) R is optionally C_2 to C_{16} alkyl;
 - b) R substitution of the anhydroglucose rings ranges from about 0.2% to 2% by weight of the cellulose ether;
 - c) the degree of carboxymethyl substitution ranges from about 0.1 to 1.0; and
 - d) A is Na.

Claim 8 (withdrawn) A composition according to Claim 7 wherein the anionic cellulose ether is selected from CMC 7H, CMC 99-7M, CMC 99-7L, CMC D72, CMC D65 and CMC DHT.

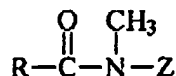
Claim 9 (previously presented): A composition according to Claim 2 in liquid form which comprises

- a) from about 5% to 50% by weight of a deterative surfactant selected from
 - i) sodium, potassium and ammonium alkylsulfates wherein the alkyl group contains from 10 to 22 carbon atoms;

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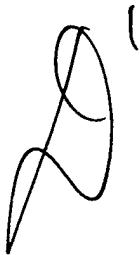
- ii) sodium, potassium and ammonium alkylpolyethoxylate sulfates wherein the alkyl group contains from 10 to 22 carbon atoms and the polyethoxylate chain contains from 1 to 15 ethylene oxide moieties;
- iii) polyhydroxy fatty acid amides of the formula

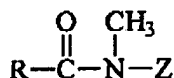


wherein R is a C₉₋₁₇ alkyl or alkenyl and Z is glyceryl derived from a reduced sugar or alkoxyated derivatives thereof;

- iv) alcohol ethoxylates of the formula R¹(OC₂H₄)_nOH wherein R¹ is a C₁₀-C₁₆ alkyl group or a C₈-C₁₂ alkyl phenyl group and n is from about 3 to 80; and
- v) combinations of these surfactants; and
- b) from about 1% to 10% by weight of a detergent builder component selected from said carboxylate and polycarboxylate builders.

Claim 10 (currently amended): A composition according to Claim 2 in granular form which comprises

- 
- a) from about 5% to 50% by weight of a deterative surfactant selected from
 - i) sodium and potassium alkylpolyethoxylate sulfates wherein the alkyl group contains from 10 to 22 carbon atoms and the polyethoxylate chain contains from 1 to 15 ethylene oxide moieties;
 - ii) sodium and potassium C₉ to C₁₅ alkyl benzene sulfonates;
 - iii) sodium and potassium C₈ to C₁₈ alkyl sulfates;
 - iv) polyhydroxy fatty acid amides of the formula



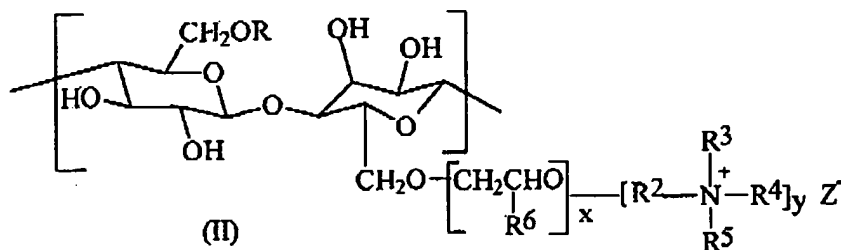
wherein R is a C₉₋₁₇ alkyl or alkenyl and Z is glyceryl derived from a reduced sugar or alkoxyated derivatives thereof; and

- v) combinations of these surfactants; and
- b) from about 1% to 50% by weight of a detergent builder selected from the group consisting of, zeolite, combinations of zeolite plus and sodium carbonate, zeolite plus silicate, oxydisuccinates, citrates, and mixtures thereof.

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Claim 11 (withdrawn) A laundry detergent composition which imparts fabric appearance benefits selected from pill/fuzz reduction, antifading, improved abrasion resistance and/or enhanced softness to fabrics and textiles laundered in aqueous washing solutions formed therefrom, which composition comprises:

- A) from about 1% to 80% by weight of a deterative surfactant;
- B) from about 0.1% to 80% by weight of an organic or inorganic detergency builder;
- C) from about 0.1% to 8% by weight of a modified cellulose ether fabric treatment agent selected from the group consisting of:
 - i) cationic quaternary ammonium cellulose ethers which have a molecular weight of from about 10,000 to 2,000,000 and which have repeating substituted anhydroglucose units corresponding to the general formula:



wherein:

R is H or C₈₋₂₄, with alkyl substitution of the anhydroglucose rings ranging in an amount of from about 0.1% to 5% by weight of the cellulose ether material;

R₂ is CH₂CHOHCH₂ or C₈₋₂₄ alkyl;

R₃, R₄ and R₅ are each, independently, methyl, ethyl or phenyl;

R₆ is H or methyl;

x ranges from about 1 to 20;

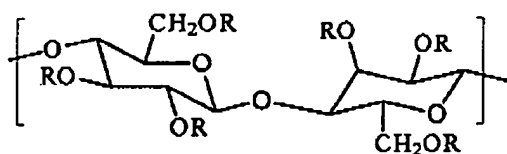
y ranges from about 0.005 to 0.5; and

Z is Cl⁻ or Br⁻;

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- ii) anionic cellulose ethers which have a molecular weight of from about 10,000 to 2,000,000 and which have repeating substituted anhydroglucose units corresponding to the general formula:



(III)

wherein:

R is a combination of H and a) CH₂COOA, and, optionally, b) C₂₋₂₄ alkyl, with alkyl substitution of the anhydroglucose rings ranging in an amount of from about 0.1% to 5% by weight of the cellulose ether material, and with the degree of carboxymethyl substitution of the anhydroglucose rings ranging from about 0.05 to 2.5; and wherein A is Na or K; and

- iii) combinations of said cationic and anionic cellulose ethers.